

In re Application of: Choi et al.
Application No. 10/672,095
Response to Office Action of January 23, 2009

Listing of Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Claim 1 (currently amended): A digital camera comprising:

an optical system,

an optoelectric converter,

a recording medium,

a display,

a digital signal processor to display on the display a state indicator that indicates progression of a transceiving state of data files being transmitted or received between the recording medium and an external device, and

a communication interface transmitting and receiving data files between the recording medium and the external device, wherein the digital signal processor displays on the display an initialization state of the communication interface upon connection of the digital camera to the external device via the communication interface, the initialization state indicating whether the communication interface is operable to transmit and receive the data files between the recording medium of the digital camera and the external device.

Claims 2-3 (canceled)

Claim 4 (previously presented): The digital camera of claim 1, wherein the digital signal processor displays on the display an electrical connection state between the digital camera and the external device.

Claim 5 (previously presented): The digital camera of claim 1, wherein the digital signal processor further monitors the transceiving state of data files being transmitted or received between the recording medium and the external device and the state indicator that indicates progression of the transceiving state.

Claim 6 (original): The digital camera of claim 1, wherein the external device is a computer.

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Claim 7 (original): The digital camera of claim 1, wherein the display is an LCD panel.

Claim 8 (original): The digital camera of claim 1, wherein the recording medium is removable from the camera.

Claim 9 (original): The digital camera of claim 1, wherein the recording medium comprises solid state memory.

Claim 10 (currently amended): A digital camera comprising:

an optical system,

an optoelectric converter,

a recording medium,

a display,

a communication interface to transmit and to receive data files between the recording medium and an external device, and

a digital signal processor to display on the display an initialization state of the communication interface upon connection of the digital camera to the external device via the communication interface, the initialization state indicating whether the communication interface is operable to transmit and receive the data files between the recording medium of the digital camera and the external device.

Claim 11 (previously presented): The digital camera of claim 10, wherein the digital signal processor further displays on the display an electrical connection state between the digital camera and the external device.

Claim 12 (previously presented): The digital camera of claim 11, wherein the digital signal processor further displays on the display a transceiving state of data files being transmitted or received between the recording medium and the external device.

Claim 13 (original): The digital camera of claim 10, wherein the communication interface is a USB interface.

Claim 14 (currently amended): A digital camera comprising:

- a means for creating a digital photograph,
- a means for storing digital image data,
- a means for displaying data,
- a means for transmitting and receiving data files between the means for storing digital image data and an external device, and
- a means for displaying an initialization state of the means for transmitting data files between the means for storing digital image data and an external device upon connection of the digital camera to the external device via the means for transmitting and receiving data files, the initialization state indicating whether the means for transmitting and receiving data files is operable to transmit and receive the data files between the recording medium of the digital camera and the external device.

Claim 15 (previously presented): The digital camera of claim 14, further comprising:

- a means for displaying a transceiving state of the means for and receiving data files between the means for storing digital image data and the external device.

Claim 16 (previously presented): The digital camera of claim 14, further comprising:

- a means for displaying an electrical connection state between the digital camera and the external device.

Claim 17 (currently amended): A method for monitoring the status of a digital camera, the method comprising:

- displaying an initialization state on a display of the digital camera while initializing a communication interface that provides communication to and from the digital camera upon connection of the digital camera to an external device via the communication interface, the initialization state indicating whether the communication interface is operable to transmit and receive data files between the recording medium of the digital camera and the external device.

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Claim 18 (previously presented): The method of claim 17, wherein the displaying an initialization state while initializing a communication interface comprises:

- monitoring a connection between the digital camera and an external device,
- waiting until the connection is complete before proceeding with the initializing of the communication interface and the displaying the initialization state,
- initializing the communication interface and displaying a message indicating the initializing of the communication interface,
- determining whether the initializing of the communication interface is successful, and if the initialization succeeds, displaying a message indicating the success of the initialization of the communication interface.

Claim 19 (previously presented): The method of claim 18, wherein the displaying the initialization state while initializing the communication interface further comprises:

- if the initialization fails, displaying a message indicating the failure of the initialization of the communication interface.

Claim 20 (previously presented): The method of claim 18, wherein the displaying the initialization state while initializing the communication interface further comprises:

- if the initialization fails, displaying a message offering guidance to remedy the failure.

Claim 21 (original): The method of claim 17, further comprising:

- displaying a transceiving state while transmitting or receiving a data file to or from an external device.

Claim 22 (previously presented): The method of claim 21, wherein the displaying the transceiving state while transmitting or receiving the data file to or from the external device further comprises:

- determining whether the data file is being transmitted or received, and
- displaying a message indicating status of transmission or reception of a data file.

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Claim 23 (previously presented): The method of claim 22, wherein the displaying the transceiving state while transmitting or receiving the data file to or from the external device further comprises:

- determining whether the initialization of the communication interface is successful,
 - if initialization of the communication interface is successful, proceeding with displaying the transceiving state while transmitting or receiving the data file to or from the external device, and
 - if initialization of the communication interface is not successful, terminating the displaying the transceiving state while transmitting or receiving the data file to or from the external device.

Claim 24 (previously presented): The method of claim 22, wherein the displaying the transceiving state while transmitting or receiving the data file to or from the external device further comprises:

- determining a type of the communication interface, and
- displaying a message indicating the type of the communication interface.

Claim 25 (currently amended): The method of claim 17, further comprising:

~~repeating the~~ displaying ~~the~~ a transceiving state while transmitting or receiving the data file to or from the external device until an end signal is input.

Claim 26 (original): The method of claim 17, further comprising:

displaying an unloaded state after the digital camera is unloaded from an external device.

Claim 27 (previously presented): The method of claim 26, wherein the displaying the unloaded state after the digital camera is unloaded from the external device comprises:

- determining whether an unloaded signal is input to the digital camera, and
 - if an unloaded signal is input, displaying a message indicating the unloaded state of the digital camera.

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Claim 28 (previously presented): The method of claim 27, wherein the displaying the unloaded state after the digital camera is unloaded from the external device comprises:

determining if the digital camera is disconnected from the external device,
if the digital camera is not disconnected from the external device, repeating the displaying the unloaded state after the digital camera is unloaded from the external device.

Claim 29 (currently amended): A method for monitoring the status of a digital camera, the method comprising:

displaying a state indicator that indicates progression of a transceiving state while transmitting or receiving a data file to or from an external device, the displaying including determining a type of the communication interface, and displaying a message indicating the type of the communication interface and an initialization state of the communication interface upon connection of the digital camera to the external device via the communication interface, the initialization state indicating whether the communication interface is operable to transmit and receive the data file between the recording medium of the digital camera and the external device.

Claim 30 (previously presented): The method of claim 29, wherein the displaying the transceiving state while transmitting or receiving the data file to or from the external device further comprises:

determining whether the data file is being transmitted or received, and
displaying a message indicating status of transmission or reception of the data file.

Claim 31 (previously presented): The method of claim 30, wherein the displaying the transceiving state while transmitting or receiving the data file to or from the external device further comprises:

determining whether initialization of a communication interface is successful,
if initialization of the communication interface is successful, proceeding with the displaying the transceiving state while transmitting or receiving the data file to or from the external device, and

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if initialization of the communication interface is not successful, terminating the displaying the transceiving state while transmitting or receiving the data file to or from the external device.

Claim 32 (canceled)

Claim 33 (previously presented): The digital camera of claim 1, wherein the state indicator that indicates progression of a transceiving state comprises a series of bars.

Claim 34 (previously presented): The digital camera of claim 10, wherein the display comprises a series of bars to indicate progression of the initialization state of the communication interface.

Claim 35 (previously presented): The method of claim 17, wherein the displaying comprises a series of bars to indicate progression of the initialization state.

Claim 36 (previously presented): The method of claim 29, wherein the displaying comprises a series of bars to indicate progression of the transceiving state.